

# RM-702 Two-Channel Remote Station

Analog Partyline Solutions

Linking  
People  
Together



RM-702

## Key Features

- Selectable one- or two-channel communication
- Momentary/latching talk buttons
- Individual call buttons
- Visual call signaling
- Balanced audio input with program interrupt (IFB)
- Hot mic and line-level outputs
- Studio announce output with relay
- Optional plug-in gooseneck mic
- Wide-range, high-output speaker
- LED buttons for Talk, Call, Announce

Encore™ is a 2-wire analog partyline system with intuitive plug-and-play design and superior “Clear-Com Sound” audio clarity.

## Description

The RM-702 is a 1RU two-channel remote station with programmable front panel buttons and individual channel volume control. The RM-702 is powered directly from the intercom line and requires no external AC power. Unlike the MS-702, the RM-702 has no power supply, circuit breaker or linking function.

## Monitoring System

The RM-702 can monitor intercom activity on one or both channels with individual volume level controls. Monitoring intercom activity is possible through a headset or the internal high sensitivity loudspeaker.

## Talk Selection

The RM-702 has mic pre-amps with limiters. An individual electronic momentary/latching Talk button is available for each channel. Illuminated dual-action Talk buttons light an LED dimly when latched: blue-color while in standby, amber-color when latched. The latching feature can be disabled. The channels can be accessed separately or simultaneously without tying them together. A selector switch toggles between the headset or microphone. The Talk buttons can also be controlled with a footswitch.

## Call Signaling

The RM-702 features individual call buttons and visual call signaling to attract the attention of operators who have removed their headsets or turned off their speakers. The visual signal flashes the illuminated Talk button when a call is received. The call signaling feature can be programmed to the Talk buttons.

## Program Interrupt (IFB)

The RM-702 accepts either a balanced or unbalanced line-level audio input through the DB-15 connector on the rear panel. The program can be monitored at the station or fed into another channel where it can also be set up for IFB/Program Interrupt from this or any other station.

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## Technical Specifications

dBu is an absolute measurement. 0 dBu is referenced to 0.775 volts RMS

### Panel Microphone Input

Input Type: Electret  
Input Impedance:  $\geq 2K$   
Mic Limiter Threshold: 0dBu  $\pm 3$ dB  
Mic Limiter Range:  $\geq 20$ dB

### Headset Microphone Input

Input Type: Dynamic  
Input Impedance:  $\geq 1K$   
Mic Limiter Threshold: 0dBu  $\pm 3$ dB  
Mic Limiter Range:  $\geq 15$ dB

### Program Line Input

Maximum Level before Clipping:  $\geq 20$ dBu  
Input Impedance:  $\geq 5K$

### Headset Output

Load Impedance:  $\geq 8$   
Output Impedance:  $\leq 25$   
Output Limiter Threshold: +5dBu  $\pm 3$ dB  
Maximum Output Level before Distortion:  $\geq 17$ dBu

### Speaker Output

Load Impedance:  $\geq 4$   
Max Output Level before 1% Distortion: 20dBu  $\pm 2$ dBu

### Partyline Output

Output Noise:  $< -74$ dBu  
Output Impedance:  $> 10K$

### Partyline Input

Crosstalk:  $< -60$ dB  
Max level before Clipping:  $\geq 12$ dBu  
Sidetone Null Capability:  $> 25$ dB

### Stage Announce/Balanced Line Out

Type: Balanced  
Output Impedance:  $\geq 200$   
Load Impedance:  $\geq 600$

### IFB/Hot Mic

Type: Unbalanced  
Output Impedance: 180  
Load Impedance:  $\geq 600$

### Frequency Response

Panel Mic - Partyline: 600 - 10KHz  $\pm 3$ dB  
Headset Mic - Partyline: 200 - 12KHz  $\pm 3$ dB  
Headset Mic - Line Out: 200 - 12KHz  $\pm 3$ dB  
Program Input - Partyline: 100 - 17KHz  $\pm 3$ dB  
Program Input - Headset Out: 200 - 10KHz  $\pm 3$ dB  
Program Input - Speaker Out: 300 - 10KHz  $\pm 3$ dB  
Partyline - Headset Out:

200 - 10KHz  $\pm 3$ dB

Partyline - Speaker Out: 300 - 10KHz  $\pm 3$ dB

### Max Distortion

Panel Mic - Partyline:  $\leq 0.5\%$   
Headset Mic - Partyline:  $\leq 0.5\%$   
Headset Mic - Line Out:  $\leq 0.5\%$   
Program Input - Partyline:  $\leq 0.2\%$   
Program Input - Headset Out:  $\leq 0.2\%$   
Program Input - Speaker Out:  $\leq 0.5\%$   
Partyline - Headset Out:  $\leq 0.2\%$   
Partyline - Speaker Out:  $\leq 0.5\%$

### Noise

Panel Mic - Partyline:  $< -65$ dBu  
Headset Mic - Partyline:  $< -70$ dBu  
Headset Mic - Line Out:  $< -55$ dBu  
Program Input - Partyline:  $< -85$ dBu  
Program Input - Headset Out:  $< -60$ dBu  
Program Input - Speaker Out:  $< -60$ dBu  
Partyline - Headset Out:  $< -50$ dBu  
Partyline - Speaker Out:  $< -50$ dBu

### Max Gain

Panel Mic - Partyline:  $\geq 37$ dB  
Headset Mic - Partyline: 41dB  $\pm 2$ dB  
Headset Mic - Hot Mic Out: 55dB  $\pm 3$ dB  
Headset Mic - Announce Out: 55dB  $\pm 3$ dB  
Program Input - Partyline:  $\geq -16$ dB  
Program Input - Headset Out:  $\geq 18$ dB  
Program Input - Speaker Out:  $\geq 24$ dB  
Partyline - Headset Out:  $\geq 34$ dB  
Partyline - Speaker Out:  $\geq 40$ dB

### Min Gain

Panel Mic - Partyline:  $\leq 25$ dB

### Power

Input Voltage Range: 20-30 VDC  
Input Current (Idle):  $\leq 90$ mA  
Input Current (Max):  $\leq 110$ mA

### Environmental

32 - 122°F (0 - 50°C)

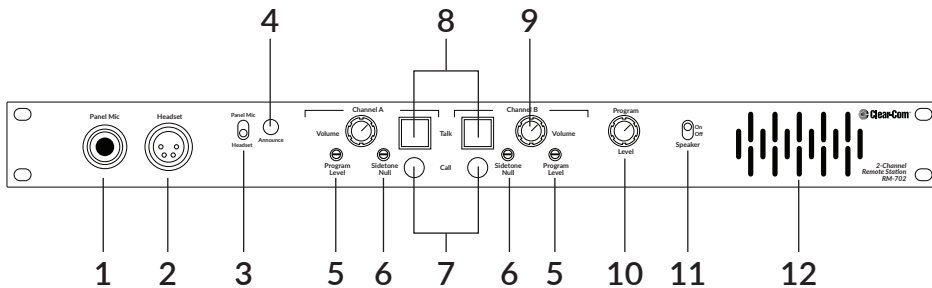
### Dimensions

1.75 x 19 x 7.0 in (HxWxD)  
(44 x 483 x 178 mm)

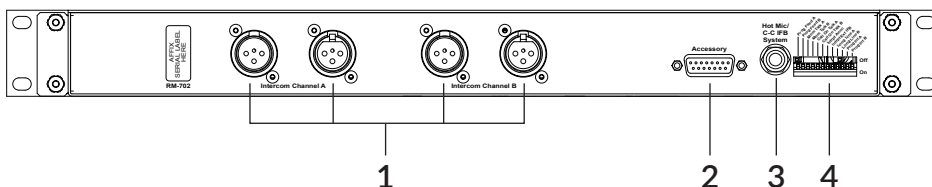
### Weight

5.2 lbs (2.4 kg)

## RM-702 Front Panel



## RM-702 Back Panel



## Legend

### Front Panel

1. Microphone connector
2. XLR-4M Headset connector
3. Mic Selector Switch
4. Announce button
5. Program Level control
6. Sidetone Null control
7. Call buttons
8. Talk buttons
9. Volume control
10. Program level control
11. Speaker ON/Off switch
12. Loudspeaker

### Back Panel

1. Intercom Channel connectors
2. AUX connector
3. Hot Mic/IFB Output
4. Dip Switches

## Order Code

RM-702